
乐达凯

Client:

LumCAT: MIAP24LAJUDPC-2700K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP26010190

Voltage(V): 120.060

LampCAT:

Current(A): 0.172

Lamp flux(lm): 2081.5

Power (W): 20.410

Number of Lamps: 1

PF: 0.991

Length(mm): -45

Width(mm): -45

Phm Type: C

Height(mm): 600

Photometric Results

Lumens(lm): 2081.48, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 101.98

Central intensity(cd): 25.773, Maximum intensity(cd): 215.520

Angle of maximum intensity: C=90.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=294.0

[C90/270]Total=285.8

Field angle(10%Imax): [C0/180]Total=341.6

[C90/270]Total=333.0

Maximum s/h(1/2): C0_180=4.59 C90_270=4.51

Maximum s/h(1/4): C0_180=4.32 C90_270=4.25

Up flux rate of lamp(%): 48.37%

Down flux rate of lamp(%): 51.63%

Up flux rate of LUM(%): 48.37%

Down flux rate of LUM(%): 51.63%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 20.446%

乐达凯 MIAP24LAJUDPC-2700K

Zonal flux distribution table

Appendix Page: 2 Total:12

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	26.168	0.000	0	0.00%	0.00%
5.0	33.173	0.709	0.709	0.03%	0.03%
10.0	47.076	2.871	3.58	0.14%	0.17%
15.0	62.980	6.528	10.109	0.31%	0.49%
20.0	79.171	11.715	21.824	0.56%	1.05%
25.0	95.298	18.299	40.122	0.88%	1.93%
30.0	111.187	26.131	66.253	1.26%	3.18%
35.0	126.498	35.001	101.254	1.68%	4.86%
40.0	140.659	44.573	145.827	2.14%	7.01%
45.0	154.745	54.697	200.524	2.63%	9.63%
50.0	167.191	65.052	265.576	3.13%	12.76%
55.0	178.621	75.191	340.767	3.61%	16.37%
60.0	188.259	84.803	425.57	4.07%	20.45%
65.0	196.866	93.625	519.195	4.50%	24.94%
70.0	203.851	101.464	620.659	4.87%	29.82%
75.0	209.031	107.921	728.58	5.18%	35.00%
80.0	212.477	112.784	841.363	5.42%	40.42%
85.0	214.173	115.931	957.294	5.57%	45.99%
90.0	214.283	117.315	1074.609	5.64%	51.63%
95.0	213.091	117.018	1191.627	5.62%	57.25%
100.0	210.374	115.066	1306.693	5.53%	62.78%
105.0	205.441	111.261	1417.954	5.35%	68.12%
110.0	198.607	105.612	1523.566	5.07%	73.20%
115.0	189.807	98.349	1621.915	4.72%	77.92%
120.0	179.957	89.890	1711.805	4.32%	82.24%
125.0	167.840	80.392	1792.197	3.86%	86.10%
130.0	154.692	70.129	1862.327	3.37%	89.47%
135.0	139.422	59.430	1921.757	2.86%	92.33%
140.0	123.489	48.680	1970.437	2.34%	94.67%
145.0	105.791	38.254	2008.69	1.84%	96.50%
150.0	88.646	28.632	2037.322	1.38%	97.88%
155.0	70.853	20.185	2057.507	0.97%	98.85%
160.0	53.341	13.026	2070.533	0.63%	99.47%
165.0	34.133	7.209	2077.742	0.35%	99.82%
170.0	15.839	2.964	2080.706	0.14%	99.96%
175.0	4.110	0.714	2081.42	0.03%	100.00%
180.0	0.850	0.059	2081.479	0.00%	100.00%

Equipment: LC-I-902 GMS-2000
Temperature($^{\circ}$ C): 24.8

Date: 2026/2/27
Humidity(%): 61.1%

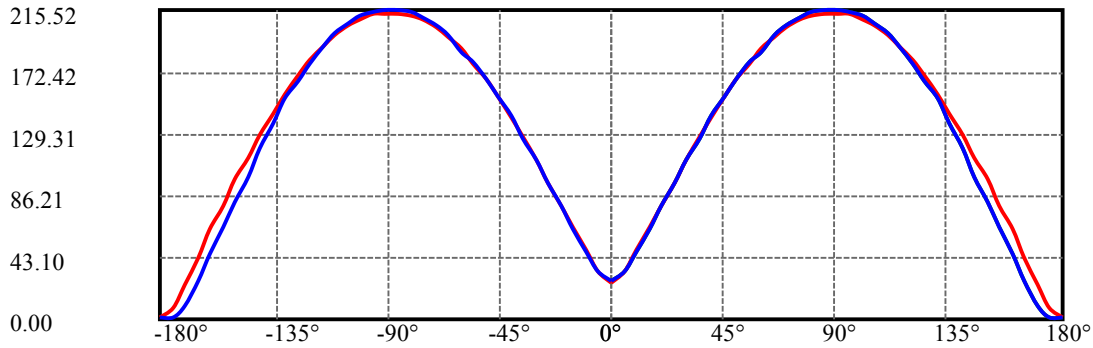
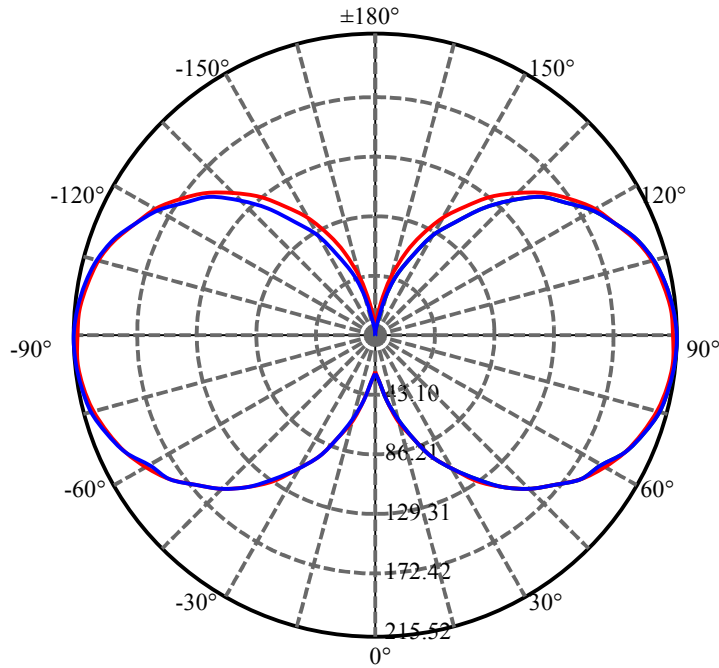
Operator: JUN WANG
Distance(m): 30.18

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	66.25	3.18%	3.18%
0-40	145.83	7.01%	7.01%
0-60	425.57	20.45%	20.45%
0-90	1074.61	51.63%	51.63%
0-120	1711.81	82.24%	82.24%
0-180	2081.48	100.00%	100.00%
60-90	649.04	31.18%	31.18%
90-120	637.20	30.61%	30.61%
90-130	787.72	37.84%	37.84%
90-150	962.71	46.25%	46.25%
90-180	1006.81	48.37%	48.37%
0-117.41	1665.18	80.00%	80.00%

ZONAL LUMEN SUMMARY

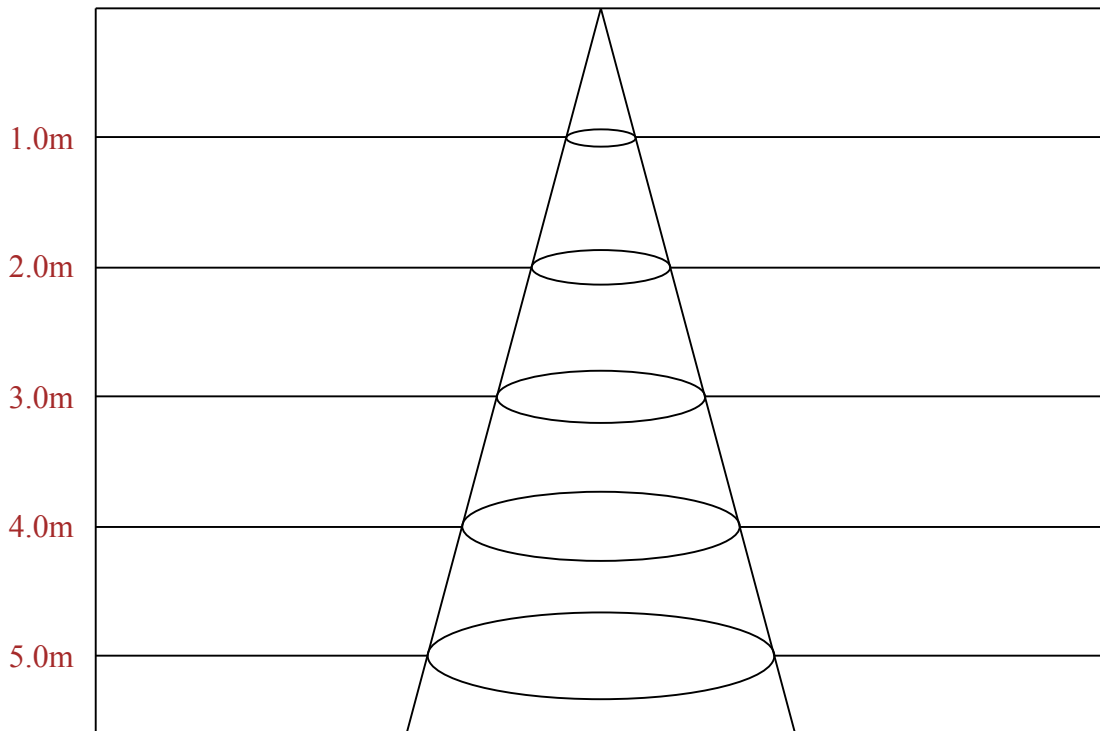
0-10	3.58
10-20	18.24
20-30	44.43
30-40	79.57
40-50	119.75
50-60	159.99
60-70	195.09
70-80	220.70
80-90	233.25
90-100	232.08
100-110	216.87
110-120	188.24
120-130	150.52
130-140	108.11
140-150	66.89
150-160	33.21
160-170	10.17
170-180	0.71



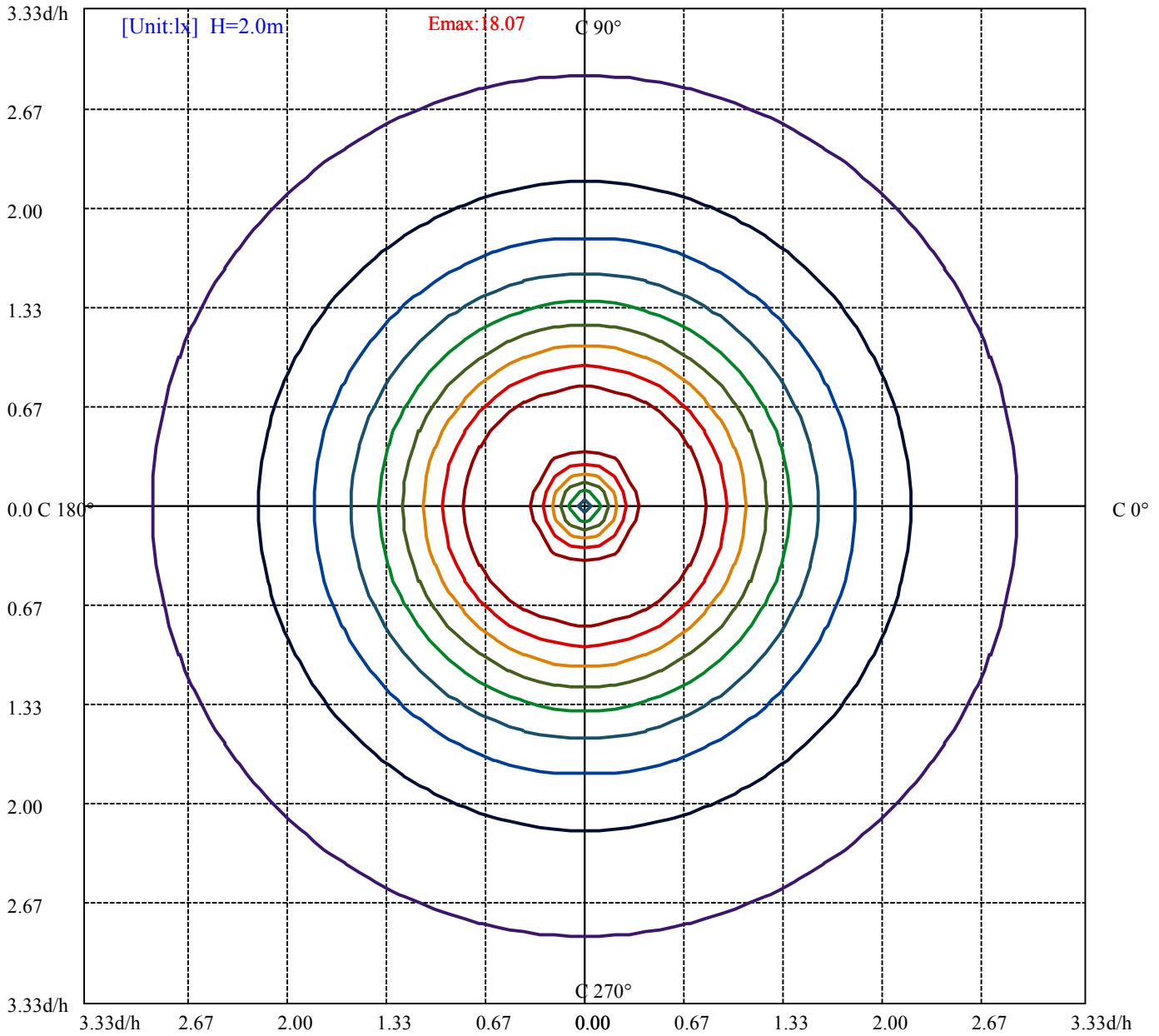
C90(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:255.8 Right:85.8
 :C90/270Left:256.5 Right:76.5

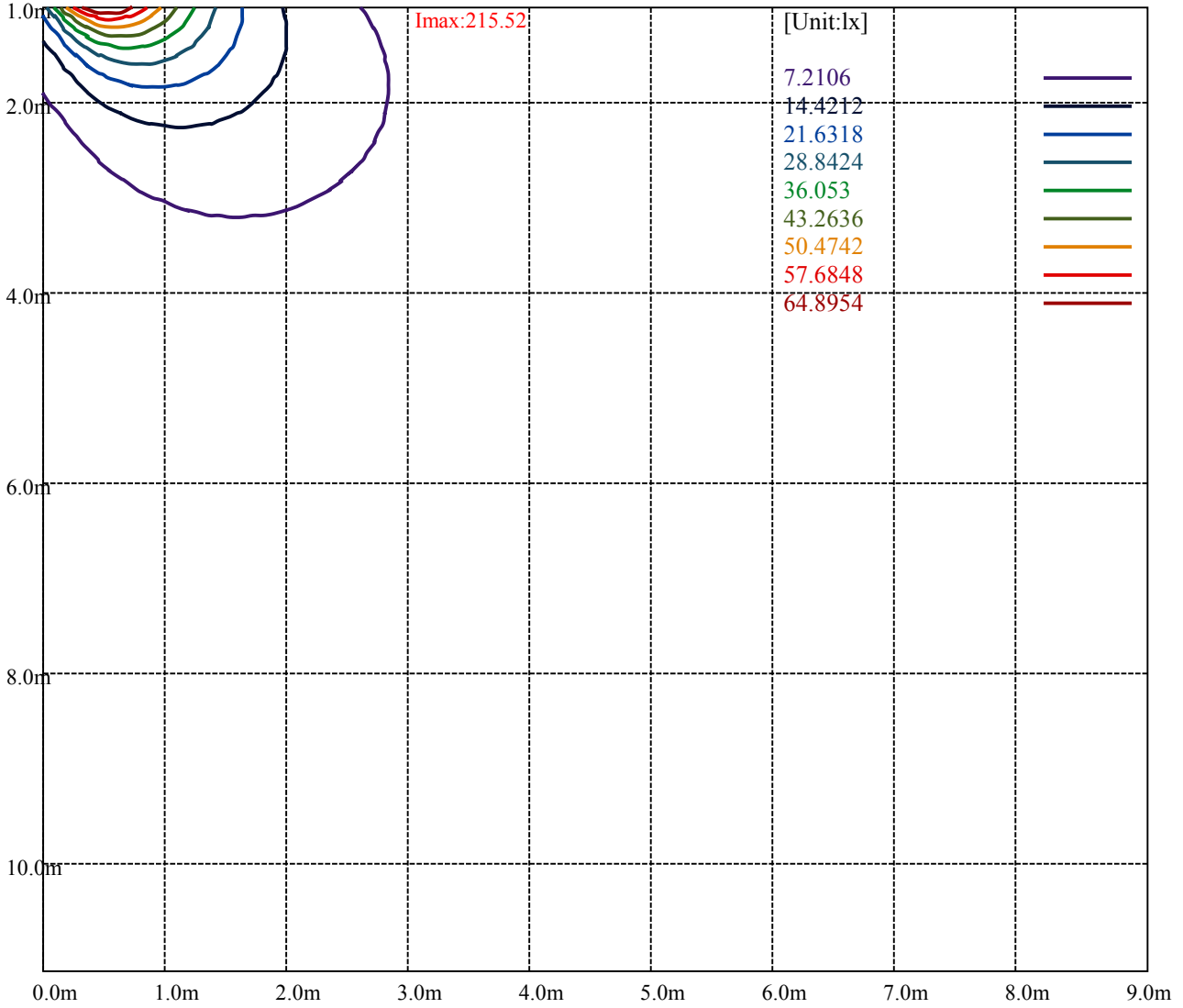
Beam Angle(50%Imax):C0/180Left:232.0 Right:62.0
 :C90/270Left:232.9 Right:52.9



Max , Ave Beam angle of C90 plane 335.78



- (10%Emax) 1.807295
- (20%Emax) 3.6146
- (30%Emax) 5.421875
- (40%Emax) 7.229175
- (50%Emax) 9.036475
- (60%Emax) 10.84377
- (70%Emax) 12.65105
- (80%Emax) 14.45835
- (90%Emax) 16.26565



Luminance Table

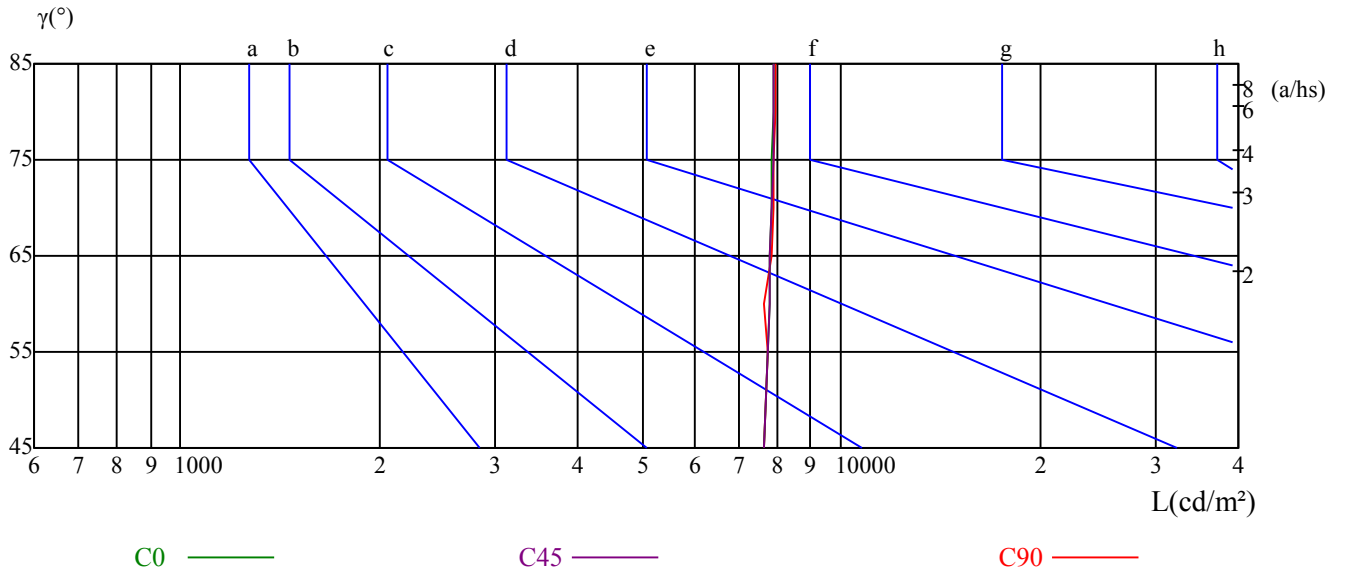
γ	45	50	55	60	65	70	75	80	85
C0	7656	7699	7755	7795	7819	7851	7871	7890	7892
C45	7651	7709	7752	7791	7826	7860	7884	7903	7915
C90	7669	7716	7767	7673	7857	7889	7921	7961	7968

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
292462	293885	292733	506536	509744	507421	1539367	1554150	1543802

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.08	1.08	1.08	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.58	0.58	0.58	0.52
1	0.86	0.80	0.74	0.79	0.73	0.68	0.65	0.61	0.57	0.53	0.50	0.47	0.42	0.39	0.37	0.32
2	0.72	0.63	0.56	0.65	0.58	0.52	0.54	0.48	0.43	0.43	0.39	0.35	0.34	0.30	0.27	0.22
3	0.61	0.52	0.44	0.56	0.47	0.40	0.46	0.39	0.34	0.37	0.31	0.27	0.28	0.24	0.21	0.16
4	0.53	0.43	0.36	0.48	0.39	0.33	0.40	0.33	0.27	0.31	0.26	0.22	0.24	0.20	0.16	0.12
5	0.46	0.37	0.29	0.42	0.34	0.27	0.35	0.28	0.22	0.28	0.22	0.18	0.21	0.17	0.13	0.10
6	0.41	0.32	0.25	0.37	0.29	0.23	0.31	0.24	0.19	0.24	0.19	0.15	0.19	0.14	0.11	0.08
7	0.37	0.27	0.21	0.33	0.25	0.19	0.28	0.21	0.16	0.22	0.17	0.13	0.17	0.12	0.09	0.06
8	0.33	0.24	0.18	0.30	0.22	0.17	0.25	0.18	0.14	0.20	0.15	0.11	0.15	0.11	0.08	0.05
9	0.30	0.21	0.16	0.27	0.20	0.14	0.23	0.16	0.12	0.18	0.13	0.09	0.14	0.10	0.07	0.05
10	0.27	0.19	0.14	0.25	0.18	0.13	0.21	0.15	0.10	0.17	0.12	0.08	0.13	0.09	0.06	0.04

Intensity data(cd)

C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	25.77	27.14	40.16	55.83	70.58	87.25	102.55	118.57	132.24
15.0	26.05	27.23	39.71	54.92	70.67	86.52	102.36	117.39	131.96
30.0	25.96	26.96	39.62	55.01	70.85	86.43	102.36	116.57	131.05
45.0	25.96	26.96	39.80	54.19	69.94	85.70	101.64	116.84	131.51
60.0	26.59	26.87	38.98	54.01	70.12	85.61	101.64	116.48	131.32
75.0	26.32	25.96	38.34	54.01	69.31	85.33	101.36	116.84	131.78
90.0	26.96	25.96	38.07	53.64	69.85	85.42	102.18	116.84	132.42
105.0	26.77	25.23	38.34	53.19	69.94	85.52	102.00	117.66	132.78
120.0	26.77	24.77	37.61	53.37	69.76	85.88	102.00	118.30	133.05
135.0	22.59	24.77	37.07	53.91	70.03	86.43	102.55	118.30	134.15
150.0	27.32	24.77	37.89	53.91	83.06	86.34	102.09	119.21	133.51
165.0	26.96	24.41	38.34	53.64	69.85	86.52	103.46	119.03	135.06
180.0	25.77	39.89	55.01	71.58	87.61	104.00	120.12	135.51	149.90
195.0	26.05	39.52	54.73	71.13	87.79	104.19	119.39	135.60	149.45
210.0	25.96	39.80	55.01	70.67	87.97	103.64	119.67	134.79	149.36
225.0	25.96	39.71	54.92	71.04	87.70	104.00	120.03	134.69	149.63
240.0	26.59	39.16	54.64	71.95	87.34	103.82	120.03	134.97	149.63
255.0	26.32	40.07	55.46	71.58	88.34	104.82	119.67	135.88	149.36
270.0	26.96	39.98	55.92	72.58	88.34	104.55	120.76	135.70	150.18
285.0	26.77	40.98	56.10	72.40	89.16	105.55	121.22	135.70	139.79
300.0	26.77	41.62	56.01	72.31	76.96	105.46	120.58	135.60	149.90
315.0	22.59	41.89	55.92	72.22	88.70	105.01	120.76	135.88	149.81
330.0	27.32	41.44	56.28	72.49	87.97	104.91	120.03	134.88	149.17
345.0	26.96	41.07	55.92	71.95	88.25	104.28	120.03	134.69	148.81
360.0	25.77	27.14	40.16	55.83	70.58	87.25	102.55	118.57	132.24
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	146.17	158.55	170.21	180.59	188.61	196.35	202.00	206.19	208.37
15.0	144.99	158.10	168.94	179.32	187.97	195.44	201.18	205.37	207.55
30.0	144.99	157.28	168.57	178.77	187.79	194.98	200.90	204.91	207.19
45.0	145.35	157.64	168.85	179.14	187.70	195.44	201.09	205.18	207.92
60.0	145.53	157.83	169.39	180.14	188.79	196.35	202.72	207.19	210.01
75.0	145.53	158.65	170.30	181.05	190.25	198.35	204.91	209.74	212.83
90.0	146.44	159.28	171.58	182.32	191.89	199.72	206.46	211.74	214.47
105.0	147.26	159.92	172.76	183.24	192.89	200.99	207.19	211.83	214.65
120.0	147.90	161.01	173.49	184.60	193.44	202.00	208.01	212.47	215.20
135.0	148.54	161.74	174.22	184.60	194.44	202.45	208.92	213.38	215.66
150.0	148.35	161.56	173.95	185.15	193.98	202.82	208.55	213.11	215.75
165.0	148.81	161.74	173.85	184.24	194.25	202.27	208.55	213.11	215.66
180.0	163.38	175.68	186.97	196.35	204.55	210.56	215.02	217.75	218.39
195.0	162.74	175.31	186.42	195.89	203.91	210.01	214.29	216.93	217.75
210.0	162.74	174.95	186.15	195.62	203.18	209.46	213.74	216.39	217.20
225.0	162.47	174.77	185.88	195.17	203.00	209.01	213.38	216.39	217.30
240.0	162.84	175.04	186.06	195.62	202.72	209.01	213.20	216.02	216.84
255.0	162.56	175.13	186.06	195.44	203.09	209.10	213.29	214.11	216.20
270.0	163.65	175.68	186.15	188.70	203.18	209.19	213.20	216.02	216.39
285.0	163.93	175.13	186.88	195.44	203.00	208.92	213.47	216.02	216.93
300.0	163.29	175.31	186.15	195.44	203.00	208.37	213.38	215.47	216.20
315.0	162.38	175.13	185.15	194.53	201.90	207.92	212.10	214.29	215.11
330.0	162.29	174.04	184.87	193.89	200.81	207.28	210.92	213.38	213.93
345.0	161.74	173.13	184.05	192.98	200.45	206.46	210.28	212.47	212.65
360.0	146.17	158.55	170.21	180.59	188.61	196.35	202.00	206.19	208.37

乐达凯 MIAP24LAJUDPC-2700K

Appendix Page: 11 Total:12

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	208.55	208.37	206.37	202.45	196.35	188.61	180.69	170.39	158.92
15.0	207.82	207.19	205.37	201.18	195.62	188.34	180.14	169.94	157.46
30.0	207.28	206.82	204.91	201.18	195.35	187.88	179.50	169.67	156.10
45.0	208.19	207.82	205.73	201.90	195.89	188.79	179.77	169.94	155.28
60.0	210.56	210.01	208.19	204.27	198.35	190.34	181.14	170.67	158.74
75.0	213.47	212.65	210.65	206.37	200.17	191.89	182.69	172.12	160.56
90.0	215.11	214.56	212.10	207.92	201.72	193.80	184.60	173.58	161.74
105.0	215.57	215.11	213.20	209.19	203.00	194.98	185.60	174.86	160.19
120.0	215.93	215.38	213.47	209.46	203.64	196.08	186.97	176.50	164.66
135.0	216.57	215.66	213.93	210.01	204.45	196.99	188.06	177.86	166.20
150.0	216.39	215.84	214.20	210.37	204.55	196.44	188.24	178.04	166.93
165.0	216.29	215.84	213.74	210.01	204.91	197.17	188.79	178.95	167.75
180.0	217.93	216.02	212.20	206.82	199.63	191.25	180.87	168.39	155.09
195.0	217.39	215.66	212.29	206.55	199.54	190.98	180.41	168.39	154.46
210.0	216.93	215.20	212.20	206.91	199.35	190.43	179.23	165.75	153.36
225.0	217.20	215.75	212.20	206.28	199.08	189.70	186.60	165.02	149.72
240.0	217.02	215.20	214.29	205.64	198.26	188.15	176.04	162.65	148.81
255.0	216.11	214.02	210.19	204.55	196.35	186.06	174.58	160.56	147.26
270.0	215.93	213.93	209.92	204.27	195.99	185.24	172.67	159.01	145.80
285.0	216.29	214.38	210.37	204.09	194.80	183.24	170.67	157.37	142.71
300.0	216.02	214.02	210.19	204.45	196.44	185.42	172.40	158.01	143.44
315.0	214.56	213.02	209.28	203.73	195.71	185.33	173.49	160.38	144.99
330.0	213.56	211.65	207.82	202.36	194.62	184.87	173.22	160.10	146.08
345.0	212.10	210.10	206.19	200.63	192.80	183.42	172.58	160.01	146.35
360.0	208.55	208.37	206.37	202.45	196.35	188.61	180.69	170.39	158.92
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	146.08	131.87	115.66	100.27	82.51	64.21	46.08	28.78	10.56
15.0	143.53	129.14	112.66	95.62	77.59	60.29	42.44	24.68	7.74
30.0	140.52	123.49	106.19	87.97	70.40	52.46	35.06	16.57	3.28
45.0	137.70	119.85	99.91	83.97	64.66	46.54	27.41	9.56	1.46
60.0	140.61	121.58	100.63	84.79	64.93	44.72	24.95	6.83	1.46
75.0	143.16	124.68	103.27	85.88	65.75	45.35	26.05	7.47	1.46
90.0	144.26	124.86	104.28	86.15	67.48	46.81	26.50	8.20	1.46
105.0	143.53	122.67	105.46	85.97	66.03	45.54	26.87	8.11	1.55
120.0	148.54	130.14	112.11	93.17	73.77	55.19	36.70	18.85	4.01
135.0	152.27	137.79	120.94	102.73	84.33	66.85	48.91	29.87	11.47
150.0	155.00	140.89	125.04	109.10	89.98	72.40	52.82	35.70	14.75
165.0	154.82	141.43	127.32	111.47	93.89	75.77	58.29	38.98	18.03
180.0	141.43	125.22	110.01	94.17	74.77	60.93	39.16	19.49	4.55
195.0	139.61	124.59	108.10	91.25	75.32	71.31	38.89	18.31	2.09
210.0	137.52	134.42	105.82	89.52	73.40	55.64	35.34	17.12	1.46
225.0	135.51	120.12	103.46	86.88	71.04	51.73	33.51	14.39	1.55
240.0	133.51	117.57	102.09	84.06	67.48	49.27	31.15	12.11	1.46
255.0	131.87	115.66	97.90	80.96	64.93	47.17	29.42	10.56	1.46
270.0	128.87	113.29	95.08	77.68	61.02	44.72	27.41	9.47	1.46
285.0	126.77	109.74	92.16	74.68	57.74	39.25	20.49	6.47	1.55
300.0	128.77	110.92	94.90	76.77	59.65	44.35	27.32	7.92	1.46
315.0	129.50	113.29	96.54	79.14	63.29	45.54	27.41	9.02	1.46
330.0	131.42	114.57	99.36	82.06	65.12	46.99	28.32	10.66	1.46
345.0	131.32	115.93	100.09	83.24	65.39	47.17	28.69	11.02	1.46
360.0	146.08	131.87	115.66	100.27	82.51	64.21	46.08	28.78	10.56

Intensity data(cd)

C/γ(°)	180.0
0.0	1.91
15.0	1.46
30.0	1.46
45.0	1.46
60.0	1.46
75.0	1.46
90.0	1.37
105.0	1.46
120.0	1.64
135.0	2.00
150.0	2.09
165.0	2.64
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	1.91